

37.

Public Health Reports

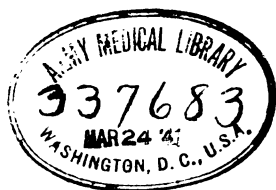
Assoc'n Military Personnel
007 1-1046
Secretary-Editor's Office

Issued Weekly by the
UNITED STATES PUBLIC HEALTH SERVICE

Volume 55—Part I

Numbers 1-26

January—June 1940



FEDERAL SECURITY AGENCY
UNITED STATES PUBLIC HEALTH SERVICE

THOMAS PARRAN, *Surgeon General*

DIVISION OF SANITARY REPORTS AND STATISTICS

CHARLES V. AKIN, *Assistant Surgeon General, Chief of Division*



The PUBLIC HEALTH REPORTS, first published in 1878 under authority of an act of Congress of April 29 of that year, is issued weekly by the United States Public Health Service through the Division of Sanitary Reports and Statistics, pursuant to the following authority of law: United States Code, title 42, sections 7, 30, 93; title 44, section 220.

It contains (1) current information regarding the prevalence and geographic distribution of communicable diseases in the United States, insofar as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other important communicable diseases throughout the world; (2) articles relating to the cause, prevention, and control of disease; (3) other pertinent information regarding sanitation and the conservation of the public health.

The PUBLIC HEALTH REPORTS is published primarily for distribution, in accordance with the law, to health officers, members of boards or departments of health, and other persons directly or indirectly engaged in public health work. Articles of special interest are issued as reprints or as supplements, in which forms they are made available for more economical and general distribution.

Requests for and communications regarding the PUBLIC HEALTH REPORTS, reprints, or supplements should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C. Subscribers should remit direct to the Superintendent of Documents, Washington, D. C.

UNITED STATES GOVERNMENT PRINTING OFFICE: 1940

For sale by the Superintendent of Documents, Washington, D. C.

Price 5 cents. Subscription price \$2.50 a year

INDEX

A

Acarina: Ixodoidea. (See Argasidae.)	Page
Address by the Honorable Paul V. McNutt, Federal Security Administrator, at the dedication of the U. S. Marine Hospital, Boston, Mass., June 6, 1940.....	1107
Administrative factors involving effectiveness of communicable disease control—Lane.....	711
<i>Aedes aegypti</i> eggs, viability of—Le Van.....	900
Aircraft, disinsectionization of—Williams.....	1005
Alabama. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
American Scientific Congress, eighth, Washington, D. C., May 10–18, 1940..	605
American Social Hygiene Association, 1939.....	604
Andervont, Howard B.: Factors influencing carcinogenesis with methylcholanthrene. III. The effect of solvents.....	537
<i>Anopheles darlingi</i> Root, the occurrence of, in British Honduras and Guatemala—Komp.....	693
<i>Anopheles punctipennis</i> Say, notes on a variation in the eggs of—Lawlor..	371
<i>Anopheles walkeri</i> (Theobald): A wild-caught specimen harboring malarial plasmodia—Bang, Quinby, and Simpson.....	119
Anthrax. (See United States—Monthly State reports.)	
Antitoxins and toxins of <i>Clostridium perfringens</i> , studies on the—Stewart..	753
Argasidae (Acarina: Ixodoidea), two new species of—Cooley and Kohls..	925
Argasid tick, <i>Ornithodoros parkeri</i> , the burrowing owl as a host to the—Jellison.....	206
Ariboflavinosis, ocular manifestations of—Kruse, Sydenstricker, Sebrell, and Cleckley.....	157
Arizona:	
(See also Name of disease—Weekly State reports; United States—Monthly State reports.)	
Psittacosis in.....	99
Ticks (<i>Ornithodoros</i> spp.) in bat "caves" in—Philip.....	680
Arkansas. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Armstrong, Charles:	
Cerebrospinal pathology of experimental poliomyelitis in the eastern cotton rat, <i>Sigmodon hispidus hispidus</i> , and in the white mouse, <i>Mus musculus</i>	718
Immunity to the Lansing strain of poliomyelitis as revealed by the protection test in white mice.....	1061
The pathology of poliomyelitis experimentally induced in the eastern cotton rat, <i>Sigmodon hispidus hispidus</i>	115

B

Bacterial assay of riboflavin in the urine and tissues of normal and depleted dogs and rats—Fraser, Topping, and Isbell.....	280
<i>Bacterium tularense</i> : Its persistence in the tissues of the argasid ticks <i>Ornithodoros turicata</i> and <i>O. parkeri</i> —Davis.....	676
Badger, L. F.: Leprosy: Vitamin B ₁ deficiency and rat leprosy.....	1027
Bang, F.B.: <i>Anopheles walkeri</i> (Theobald): A wild-caught specimen harboring malarial plasmodia.....	119
Bauer, J. H.: Yellow fever.....	362
Belgium: Vital statistics—1938.....	527
Bell, E. John: Epidemic and endemic typhus: Protective value for guinea pigs of vaccines prepared from infected tissues of the developing chick embryo.....	110
Bengtson, Ida A.: The experimental pathological changes produced by the toxin of <i>Clostridium histolyticum</i> in animals.....	775

	Page
Bermuda: Vital statistics—1939.....	527
Birth and infant mortality statistics for 1939, provisional.....	1131
Birth registration, tests for completeness of.....	330
Births in New York State.....	509
Blumberg, Harold: Attempts to produce tumors in rats by feeding crude wheat germ oil made by prolonged ether extraction.....	531
Bozicevich, John: Studies on trichinosis. VIII. The antigenic phase of trichinosis.....	683
Branham, Sara E.: The effect of sulfapyridine and sulfanilamide with and without serum in experimental meningococcus infection.....	12
Brazil: Rio de Janeiro—Poliomyelitis.....	180
Brinton, Hugh P.: Disabling morbidity among male and female em- ployees in mail order stores, 1930–34, inclusive.....	1163
British Honduras and Guatemala, the occurrence of <i>Anopheles darlingi</i> Root in—Komp.....	693
Britten, Rollo H.: The National Health Survey. Some general findings as to disease, accidents, and impairment in urban areas.....	444

C

California. (See also Name of disease—Weekly State reports; United States—Monthly State reports.)	
San Francisco, sources of infection in cases of trichinosis in.....	942
Canada:	
Manitoba—Typhoid fever.....	664
Provinces—Communicable diseases—Week ended—	
December 2, 1939.....	40
December 9, 1939.....	133
December 16, 1939.....	180
December 23, 1939.....	262
December 30, 1939.....	482
January 6, 1940.....	528
January 13, 1940.....	528
January 20, 1940.....	565
January 27, 1940.....	565
February 3, 1940.....	565
February 10, 1940.....	615
February 17, 1940.....	615
February 24, 1940.....	616
March 2, 1940.....	664
March 9, 1940.....	664
March 16, 1940.....	708
March 23, 1940.....	708
March 30, 1940.....	796
April 6, 1940.....	858
April 13, 1940.....	911
April 20, 1940.....	952
April 27, 1940.....	998
May 4, 1940.....	1055
May 11, 1940.....	1102
May 18, 1940.....	1142
Vital statistics—	
Second quarter 1939.....	103
Third quarter 1939.....	616
Cancer control, the need for intensive educational campaigns in.....	653
Cancer film, new, an important educational feature.....	784
Cancer mortality in the United States according to site, by sex and age, 1938	731
Cancer, the incidence of, in Cook County, Illinois, 1937—Dorn.....	628
Carcinogenesis with methylcholanthrene, factors influencing. III. The effect of solvents—Shimkin and Andervont.....	537
Cases and days of illness among males and females with special reference to confinement to bed. Based on 9,000 families visited periodically for 12 months, 1928–31—Collins.....	47
Census of housing, the first United States.....	430
Cerebrospinal pathology of experimental poliomyelitis in the eastern cotton rat, <i>Sigmodon hispidus hispidus</i> , and in the white mouse, <i>Mus</i> <i>musculus</i> —Lillie and Armstrong.....	718
Chickenpox. (See United States—Monthly State reports.)	

INDEX

V

Page

Childbirth mortality, studies in. I. Puerperal fatality and loss of offspring—Yerushalmy, Kramer, and Gardiner.....	1010
Childhood, the disabling diseases of:	
I. Characteristics and leading causes—Holland.....	135
II. Medical and nursing care—Holland.....	227
Cholera: Foreign reports... 182, 302, 342, 483, 529, 567, 709, 745, 1000, 1142,	1188
Cleckley, H. M.: Ocular manifestations of ariboflavinosis.....	157
<i>Clostridium histolyticum</i> , the experimental pathological changes produced in animals by the toxin of—Pasternack and Bengtson.....	775
<i>Clostridium perfringens</i> , studies on the toxins and antitoxins of—Stewart... 753	
Clothing for protection against occupational skin irritants—Schwartz, Warren, and Goldman.....	1158
Collins, Selwyn D.:	
Cases and days of illness among males and females with special reference to confinement to bed. Based on 9,000 families visited periodically for 12 months, 1928-31.....	47
Duration of illness from specific diseases among 9,000 families, based on Nation-wide periodic canvasses, 1928-31.....	861
The National Health Survey. Some general findings as to disease, accidents, and impairments in urban areas.....	444
Colorado. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Communicable disease control, administrative factors involving effectiveness of—Lane.....	711
Communicable diseases. (See Name of country.)	
Community economic status and the dental problem of school children—Klein and Palmer.....	187
Conjunctivitis. (See United States—Monthly State reports.)	
Connecticut. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Cooley, R. A.: Two new species of Argasidae (Acarina: Ixodoidea).....	925
County health department practice, neglected opportunities for teamwork in—Dean and Flook.....	573
Court decisions on public health:	
Bakeries outside of city limits, inspection by city health officer of, held unauthorized.....	943
Compensation for typhoid fever under workmen's compensation act denied.....	1178
Death certificate as evidence of facts stated therein.....	1088
Employee held not to have suffered "injury" within meaning of workmen's compensation law.....	901
Food inspection ordinance held invalid.....	988
Guaranty to dealer that a food or drug is not adulterated or misbranded under a State's statutes.....	655
Health certificate of person working in food or drink establishment construed, statute requiring.....	1132
Market places, city ordinance pertaining to, upheld.....	1044
Occupational disease contracted by employee, recovery allowed for... 170	
Pneumonia held not to result from "accident" within meaning of workmen's compensation act.....	700
Pollution of city water supply.....	849
Sanitary tax in connection with privies upheld.....	785
Tax by public health district upheld.....	554
Tax, county, for promotion of public health.....	509
Trichinosis, recovery by restaurant patron for.....	735
Venereal disease, premarital examination for.....	374
Water supply, city, pollution of.....	849
Cox, Herald R.: Epidemic and endemic typhus: Protective value for guinea pigs of vaccines prepared from infected tissues of the developing chick embryo.....	110
Cuba:	
Havana—Communicable diseases—4 weeks ended—	
December 16, 1939.....	224
January 13, 1940.....	301
February 10, 1940.....	439
March 9, 1940.....	617

Cuba—Continued.

Havana—Communicable diseases—4 weeks ended—Continued.

April 6, 1940.....	911
May 4, 1940.....	998

Provinces—Notifiable diseases—4 weeks ended—

October 14, 1939.....	104
November 11, 1939.....	180
December 9, 1939.....	224
January 6, 1940.....	301
February 3, 1940.....	617
March 2, 1940.....	665
March 30, 1940.....	744
April 27, 1940.....	1055

D

Dauer, C. C.:

Geographical distribution of diphtheria mortality in the United States.....	622
Prevalence of poliomyelitis in the United States in 1939.....	955

Davis, Gordon E.:

<i>Bacterium tularensis</i> : Its persistence in the tissues of the argasid ticks <i>Ornithodoros turicata</i> and <i>O. parkeri</i>	676
<i>Ornithodoros hermsi</i> : Feeding and molting habits in relation to the acquisition and transmission of relapsing fever spirochetes.....	492
Relapsing fever: Data implicating <i>Ornithodoros hermsi</i> as a vector in northern Idaho.....	504

Dean, J. O.: Neglected opportunities for teamwork in county health department practice.....

573

Death rates, infant, in the United States, by States, for 1938 and prior years.....

602

Deaths:

(See also Mortality.)

All causes—Weekly city reports.....	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661,	
705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1039, 1185.	
Large cities—Weekly reports (Weekly Health Index).....	26,
94, 125, 172, 214, 254, 293, 333, 376, 431, 474, 510, 555, 607, 656,	
700, 736, 787, 850, 902, 944, 990, 1045, 1089, 1134, 1178.	

Dedication of the new Boston Marine Hospital.....

1105

Delaware. (See Name of disease—Weekly State reports; United States—Monthly State reports.)

Dengue:

(See also United States—Monthly State reports.)

Weekly city reports.....	614, 707, 743, 910
--------------------------	--------------------

Denmark: Notifiable diseases—October, November, December 1939.....

618

Dental problem of school children and the community economic status—

Klein and Palmer.....

187

Deratization exemption certificates, foreign, accuracy of.....

244

Derryberry, Mayhew: Using tests as a medium for health education.....

485

Detre, Laszlo: Studies on trichinosis. VIII. The antigenic phase of trichinosis.....

683

Diphtheria:

(See also United States—Monthly State reports.)

Weekly city reports.....	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661,	
705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	

Weekly State reports.....

27,

31, 96, 127, 174, 216, 256, 295, 335, 378, 433, 476, 512, 557, 609,
658, 702, 738, 788, 852, 904, 946, 992, 1047, 1091, 1136, 1180.

Diphtheria and diphtheria immunization in England and Wales.....

848

Diphtheria mortality, geographical distribution of, in the United States—

Dauer.....

622

Disabling morbidity, the course of, among industrial workers, 1921–38—

Gafafer.....

962

Diseases, communicable, infectious, notifiable. (See Name of disease—Name of country.)

INDEX

VII

Page

Diseases, disabling, of childhood:	
I. Characteristics and leading causes—Holland.....	135
II. Medical and nursing care—Holland.....	227
Disinsectization of aircraft—Williams.....	1005
District of Columbia:	
(See also Name of disease—Weekly State reports; United States—Monthly State reports.)	
Washington, Eighth American Scientific Congress, May 10-18, 1940..	605
Dorn, Harold F.:	
Mortality rates and economic status in rural areas.....	3
The incidence of cancer in Cook County, Illinois, 1937.....	628
Dyer, R. E.: A highly virulent strain of Rocky Mountain spotted fever virus isolated in the Eastern United States.....	728
Dysentery. (See United States—Monthly State reports.)	

E

Earle, Wilton R.: A further study of the mode of action of methylcholanthrene on normal tissue cultures.....	303
Economic status and mortality rates, in rural areas—Dorn.....	3
Educational campaigns in cancer control, the need for intensive.....	653
Eddy, Bernice E.: A study of pneumococcus typing serums for the purpose of standardizing a test for potency.....	347
Egypt:	
Infectious diseases—Third quarter 1939.....	912
Vital statistics—	
First and second quarters, 1939.....	528
Third quarter 1939.....	912
Encephalitis, epidemic or lethargic:	
(See also United States—Monthly State reports.)	
Weekly city reports.....	39,
102, 132, 179, 223, 261, 300, 340, 385, 438, 481, 526, 564, 614, 663,	
707, 743, 795, 857, 910, 951, 997, 1054, 1101, 1141, 1187.	
Encephalomyelitis, infectious equine, in the United States in 1939.....	601
Euglenidae, limitations of, as polluted water indicators—Lackey and Smith.....	268
Europe, influenza in.....	566

F

Factors influencing carcinogenesis with methylcholanthrene. III. The effect of solvents—Shimkin and Andervont.....	537
Ferrets, pathologic histology of experimental virus influenza in—Perrin and Oliphant.....	1077
Film, new cancer, an important educational feature.....	784
Finland: Communicable diseases—	
November 1939.....	439
December 1939.....	482
Four weeks ended—	
January 27, 1940.....	618
February 24, 1940.....	796
March 23, 1940.....	998
First United States census of housing.....	430
Fitzgerald, James S.: The National Health Survey. Some general findings as to disease, accidents, and impairments in urban areas.....	444
Flook, Evelyn:	
Neglected opportunities for teamwork in county health department practice.....	573
The place of an index in health department record keeping.....	387
Florida: (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Foreign deratization exemption certificates, accuracy of.....	244
Foreign reports: Quarantinable diseases.....	40,
105, 133, 182, 224, 263, 302, 342, 386, 439, 483, 529, 567, 618,	
666, 709, 745, 798, 859, 913, 953, 1000, 1056, 1103, 1142, 1188.	

Fraser, H. F.:

The bacterial assay of riboflavin in the urine and tissues of normal and depleted dogs and rats.....	280
The determination of V factor in the urine and tissues of normal dogs and of dogs with blacktongue by the use of <i>Hemophilus parainfluenzae</i>	915
Frasier, Elizabeth S.: Disabling morbidity among male and female employees in mail order stores, 1930-34, inclusive.....	1163

G

Gafafer, William M.: Disabling morbidity among industrial workers—Third quarter and the first 9 months of 1939.....	1
Final quarter of 1939 and the entire year.....	650
The course of disabling morbidity among industrial workers, 1921-38.....	962
Gardiner, E. M.: Studies in childbirth mortality. I. Puerperal fatality and loss of offspring.....	1010
Georgia. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
German measles. (See United States—Monthly State reports.)	
Goldman, Frederick H.: Clothing for protection against occupational skin irritants.....	1158
Grady, Hugh G.: Origin of induced pulmonary tumors in strain A mice..	169
Great Britain: England and Wales—	
Diphtheria and diphtheria immunization in.....	848
Infectious diseases—13 weeks ended September 30, 1939.....	341
Vital statistics—Third quarter 1939.....	341
Guatemala and British Honduras, the occurrence of <i>Anopheles darlingi</i> Root in—Komp.....	693

H

Haas, V. H.: Immunity to the Lansing strain of poliomyelitis as revealed by the protection test in white mice.....	1061
Hampton, Brock C.: Plague in the United States.....	1143
Health and housing relationships re-examined—Marquette.....	547
Health department record keeping, the place of an index in—Mountin and Flook.....	387
Health education, using tests as a medium for—Derryberry and Weissman.....	485
Health officers, the thirty-eighth annual conference of State and territorial.....	900
Health Survey, National. Some general findings as to disease, accidents, and impairments in rural areas—Britten, Collins, and Fitzgerald.....	444
<i>Hemophilus parainfluenzae</i> , the determination of V factor in the urine and tissues of normal dogs and of dogs with blacktongue by the use of—Pittman and Fraser.....	915
Holland, Dorothy F.: The disabling diseases of childhood—	
I. Characteristics and leading causes.....	135
II. Medical and nursing care.....	227
Hookworm disease. (See United States—Monthly State reports.)	
Hoskins, J. K.: Some developments in the water pollution research program of the Public Health Service.....	893
Hospital bill, national, reported out of committee.....	847
Hospital facilities, existence and use of, among the several States in relation to wealth as expressed by per capita income—Pennell, Mountin, and Pearson.....	822
Housing and health relationships re-examined—Marquette.....	547
Housing, the first United States census of.....	430

I

Idaho:

(See also Name of disease—Weekly State reports; United States—Monthly State reports.)

Psittacosis case in, traced to shell parakeets shipped from southern California aviary.....	1043
---	------

Illinois:

(See also Name of disease—Weekly State reports; United States—Monthly State reports.)

Cook County—The incidence of cancer in, 1937—Dorn.....	628
--	-----

Illness among males and females, cases and days of, with special reference to confinement to bed. Based on 9,000 families visited periodically for 12 months, 1928-31—Collins.....	47
Illness, duration of, from specific diseases among 9,000 families, based on Nation-wide canvasses, 1928-31—Collins.....	861
Immunity to the Lansing strain of poliomyelitis as revealed by the protection test in white mice—Haas and Armstrong.....	1061
Index, place of, in health department record keeping—Mountin and Flook—Indiana. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	387
Industrial workers, disabling morbidity among:	
Third quarter and first 9 months of 1939—Gafafer.....	1
Final quarter of 1939 and entire year—Gafafer.....	650
Industry, American, skin hazards in, Part III. A review.....	473
Infant death rates in the United States, by States, for 1938 and prior years.....	602
Infant mortality and birth statistics for 1939, provisional.....	1131
Infantile paralysis. (See Poliomyelitis.)	
Infectious agents of some of the rickettsioses, the preservation of the—Topping.....	545
Infectious diseases. (See Name of country.)	
Influenza:	
(See also United States—Monthly State reports.)	
In Europe.....	566
In ferrets, pathologic histology of experimental virus—Perrin and Oliphant.....	1077
Weekly city reports.....	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661,	
705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	
Weekly State reports.....	27,
31, 96, 127, 174, 216, 256, 295, 335, 378, 433, 476, 512, 557, 609,	
658, 702, 738, 788, 852, 904, 946, 992, 1047, 1091, 1136, 1180.	
Iowa. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Irish Free State: Vital statistics—Quarter ended September 30, 1939.....	181
Isbell, H.: The bacterial assay of riboflavin in the urine and tissues of normal and depleted dogs and rats.....	280
Italy: Communicable diseases—4 weeks ended—	
October 8, 1939.....	105
November 5, 1939.....	262
December 3, 1939.....	482
December 31, 1939.....	665
January 28, 1940.....	952
February 25, 1940.....	1102

J

Jamaica: Communicable diseases—4 weeks ended—	
December 23, 1939.....	133
January 20, 1940.....	796
February 17, 1940.....	858
March 16, 1940.....	912
April 13, 1940.....	953
May 11, 1940.....	1103
Jellison, William L.:	
Siphonaptera: Notes on two California species.....	489
The burrowing owl as a host to the argasid tick, <i>Ornithodoros parkeri</i>	206

K

Kachmar, J. F.: Studies of sewage purification—	
XI. The removal of glucose from substrates by activated sludge....	393
XII. Metabolism of glucose by activated sludge.....	582
Kansas. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Kentucky. (See Name and disease—Weekly State reports; United States—Monthly State reports.)	

Klein, Henry: Community economic status and the dental problem of school children.....	187
Kohls, Glen M.: Two new species of Argasidae (Acarina: Ixodoidea).....	925
Komp, W. H. W.: The occurrence of <i>Anopheles darlingi</i> Root in British Honduras and Guatemala.....	693
Kramer, M.: Studies in childbirth mortality—I. Puerperal fatality and loss of offspring.....	1010
Kruse, H. D.: Ocular manifestations of ariboflavinosis.....	157

L

Lackey, James B.: Limitations of Euglenidae as polluted water indicators.....	268
Studies of sewage purification—XIII. The biology of <i>Sphaerotilus natans</i> Kutzing in relation to bulking of activated sludge.....	957
Lane, E. A.: Administrative factors involving effectiveness of communicable disease control.....	711
Lansing strain of poliomyelitis, immunity to the, as revealed by the protection test in white mice—Haas and Armstrong.....	1061
Lansing strain of poliomyelitis virus before and after passage in the cotton rat, a note on the pathology in monkeys of the—Peers.....	726
Latvia: Notifiable diseases— October 1939.....	566
November 1939.....	566
December 1939.....	566
Vital statistics—Year 1939—Comparative.....	912
Lawlor, William K.: Notes on a variation in the eggs of <i>Anopheles punctipennis</i> Say.....	371
Lead poisoning. (See United States—Monthly State reports.)	
Legislation, State, in 1939 affecting public health.....	695
Leprosy: (See also United States—Monthly State reports.) Vitamin B ₁ deficiency and rat leprosy—Badger, Masunaga, and Wolf..	1027
Leukoderma, occupational—Schwartz, Oliver, and Warren.....	1111
Le Van, James H.: Viability of <i>Aedes aegypti</i> eggs.....	900
Lillie, R. D.: Cerebrospinal pathology of experimental poliomyelitis in the eastern cotton rat, <i>Sigmodon hispidus hispidus</i> , and in the white mouse, <i>Mus musculus</i>	718
The pathology of poliomyelitis experimentally induced in the eastern cotton rat, <i>Sigmodon hispidus hispidus</i>	115
Louisiana. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	

Mc

McNutt, Paul V.: Address by the Honorable, Federal Security Administrator, at the dedication of the U. S. Marine Hospital, Boston, Mass., June 6, 1940.....	1107
---	------

M

Mail order stores, disabling morbidity among male and female employees in, 1930–34, inclusive—Brinton and Frasier.....	1163
Maine. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Malaria. (See United States—Monthly State reports.)	
Manganese poisoning, chronic. (A review).....	1041
Market-milk supplies, report on, of certain urban communities. Compliance with the Grade A pasteurized and Grade A raw milk requirements of the Public Health Service milk ordinance and code, January 1, 1938, to December 31, 1939.....	121
Marquette, Bleecker: Housing and health relationships re-examined.....	547
Maryland. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Massachusetts: (See also Name of disease—Weekly State reports; United States—Monthly State reports.) Boston Marine Hospital, dedication of.....	1105

Masunaga, E.: Leprosy: Vitamin B ₁ deficiency and rat leprosy-----	1027
Measles:	
(See also United States—Monthly State reports.)	
Weekly city reports-----	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661,	
705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	
Weekly State reports-----	27,
31, 96, 127, 174, 216, 256, 295, 335, 378, 433, 476, 512, 557, 609,	
658, 702, 738, 788, 852, 904, 946, 992, 1047, 1091, 1136, 1180.	
Meningitis, meningococcus:	
(See also United States—Monthly State reports.)	
Weekly city reports-----	39,
102, 132, 179, 223, 261, 300, 340, 385, 438, 481, 526, 564, 614, 663,	
707, 743, 795, 857, 910, 951, 997, 1054, 1101, 1141, 1187.	
Weekly State reports-----	28,
32, 96, 127, 174, 216, 256, 295, 335, 378, 433, 476, 512, 557, 609,	
658, 702, 738, 788, 852, 904, 946, 992, 1047, 1091, 1136, 1180.	
Meningococcus infection, experimental, the effect of sulfapyridine and	
sulfanilamide with and without serum in—Branham-----	12
Methylcholanthrene, a further study of the mode of action of, on normal	
tissue cultures—Earle and Voegtlin-----	303
Methylcholanthrene, factors influencing carcinogenesis with. III. The	
effect of solvents—Shimkin and Andervont-----	537
Michigan. (See Name of disease—Weekly State reports; United States—	
Monthly State reports.)	
Mider, G. Burroughs: Effect of petroleum ether extract of mouse car-	
casses on skin tumor production in C57 black mice-----	670
Minnesota. (See Name of disease—Weekly State reports; United States—	
Monthly State reports.)	
Mississippi. (See Name of disease—Weekly State reports; United States—	
Monthly State reports.)	
Missouri. (See Name of disease—Weekly State reports; United States—	
Monthly State reports.)	
Montana. (See Name of disease—Weekly State reports; United States—	
Monthly State reports.)	
Moore, W. Allan: Studies of sewage purification. XI. The removal of	
glucose from substrates by activated sludge-----	393
Morbidity among industrial workers, the course of disabling, 1921-38—	
Gafafer-----	962
Morbidity and mortality, trend of, during 1939 and recent preceding years.	
Morbidity, disabling, among industrial workers:	
Third quarter and first 9 months of 1939—Gafafer-----	1
Final quarter of 1939 and the entire year—Gafafer-----	650
Morbidity, disabling, among male and female employees in mail order	
stores, 1930-34, inclusive—Brinton and Frasier-----	1163
Mortality. (See also Deaths.)	
Mortality and morbidity, trend of, during 1939 and recent preceding years.	
Mortality and natality figures for 1939, provisional-----	508
Mortality, cancer, in the United States according to site, by sex and	
age, 1938-----	731
Mortality data for 1938, by cause-----	211
Mortality rates and economic status in rural areas—Dorn-----	3
Mortality rates, provisional, for the first 9 months of 1939-----	245
Mortality statistics, provisional, by States for 1939-----	1087
Mortality, studies in childbirth. I. Puerperal fatality and loss of off-	
spring—Yerushalmy, Kramer, and Gardiner-----	1010
Mortality summary, preliminary, for large cities, 1939-----	208
Morton, John J.: Effect of petroleum ether extract of mouse carcasses on	
skin tumor production in C57 black mice-----	670
Mountin, Joseph W.:	
Existence and use of hospital facilities among the several States in	
relation to wealth as expressed by per capita income-----	822
Our verbal public health activities-----	323
The place of an index in health department record keeping-----	387
Mumps. (See United States—Monthly State reports.)	

N

	Page
Natality and mortality figures for 1939, provisional.....	508
National Health Survey. Some general findings as to disease, accidents, and impairments in urban areas—Britten, Collins, and Fitzgerald.....	444
National hospital bill reported out of committee.....	847
Nebraska. (See Name of disease—Weekly State reports; United States— Monthly State reports.)	
Nevada:	
(See also Name of disease—Weekly State reports; United States— Monthly State reports.)	
An unidentified disease in, believed to be transmitted by rodents....	988
Elko County—	
Plague-infected fleas.....	907
Plague-infected ground squirrels.....	907
New Hampshire. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
New Jersey. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
New Mexico. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
New York:	
(See also Name of disease—Weekly State reports; United States— Monthly State reports.)	
Births in.....	509
North Carolina. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
North Dakota. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Notifiable diseases. (See Name of country.)	
Notifiable diseases in the United States, 1938. Morbidity and mortality summaries for certain important communicable diseases.....	423
A correction.....	510

O

Occupational leukoderma—Schwartz, Oliver, and Warren.....	1111
Occupational skin irritants, clothing for protection against—Schwartz, Warren, and Goldman.....	1158
Ocular manifestations of ariboflavinosis—Kruse, Sydenstricker, Sebrell, and Cleckley.....	157
Ohio. (See Name of disease—Weekly State reports; United States— Monthly State reports.)	
Oklahoma. (See Name of disease—Weekly State reports; United States— Monthly State reports.)	
Olipphant, J. W.: Pathologic histology of experimental virus influenza in ferrets.....	1077
Oliver, Edward A.: Occupational leukoderma.....	1111
Oregon:	
(See also Name of disease—Weekly State reports; United States— Monthly State reports.)	
Lake County—Plague-infected marmot.....	1138
<i>Ornithodoros hermsi</i> as a vector of relapsing fever in northern Idaho, data implicating—Philip and Davis.....	504
<i>Ornithodoros hermsi</i> : Feeding and molting habits in relation to the acqui- sition and transmission of relapsing fever spirochetes—Davis and Walker..	492
<i>Ornithodoros parkeri</i> , the burrowing owl as a host to the argasid tick— Jellison.....	206
<i>Ornithodoros</i> spp. (ticks) in Arizona bat "caves"—Philip.....	680
<i>Ornithodoros turicata</i> and <i>O. parkeri</i> , argasid ticks, persistence of <i>Bacterium</i> <i>tularensis</i> in the tissues of—Davis.....	676
Owl, burrowing, as a host to the argasid tick, <i>Ornithodoros parkeri</i> —Jellison..	206

P

Palmer, Carroll E.: Community economic status and the dental problem of school children.....	187
Panama Canal Zone: Notifiable diseases—	
October, November, December, 1939.....	301
January, February, March, 1940.....	999

Paratyphoid fever. (See typhoid fever: United States—Monthly State reports.)	
Pasternack, Joseph G.: The experimental pathological changes produced by the toxin of <i>Clostridium histolyticum</i> in animals	775
Pathological changes, experimental, produced by the toxin of <i>Clostridium histolyticum</i> in animals—Pasternack and Bengtson	775
Pearson, Kay: Existence and use of hospital facilities among the several States in relation to wealth as expressed by per capita income	822
Peers, James H.: A note on the pathology in monkeys of the Lansing strain of poliomyelitis virus before and after passage in the cotton rat	726
Pellagra:	
(See also United States—Monthly State reports.)	
Weekly city reports	39,
102, 132, 179, 223, 261, 300, 340, 385, 438, 481, 526, 564, 614, 663, 707, 743, 795, 857, 910, 951, 997, 1054, 1101, 1141, 1187.	
Pennell, Elliott H.: Existence and use of hospital facilities among the several States in relation to wealth as expressed by per capita income	822
Pennsylvania. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Perrin, T. L.: Pathologic histology of experimental virus influenza in ferrets	1077
Petroleum ether extract of mouse carcasses, effect of, on skin tumor production in C57 black mice—Morton and Mider	670
Philip, Cornelius B.:	
Relapsing fever: Data implicating <i>Ornithodoros hermsi</i> as a vector in northern Idaho	504
Ticks (<i>Ornithodoros</i> spp.) in Arizona bat "caves"	680
Pittman, Margaret: The determination of V factor in the urine and tissues of normal dogs and of dogs with blacktongue by the use of <i>Hemophilus parainfluenzae</i>	915
Placak, O. R.: Studies of sewage purification—XII. Metabolism of glucose by activated sludge	582
Plague: Foreign reports	40, 105, 133, 183, 224, 263, 302, 342, 386, 483, 529, 568, 666, 709, 745, 798, 913, 953, 1000, 1103, 1142, 1188
Plague (human): Utah	258
Plague-infected fleas:	
Nevada—Elko County	907
Washington—	
Lincoln County	1094
Spokane County	1094, 1138
Plague-infected ground squirrels:	
Nevada—Elko County	907
Washington—Spokane County	1094
Plague-infected marmot: Oregon—Lake County	1138
Plague in the United States—Hampton	1143
Pneumococcus typing serums, a study of, for the purpose of standardizing a test for potency—Eddy	347
Pneumonia (all forms): Weekly city reports	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661, 705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	
Poliomyelitis:	
(See also United States—Monthly State reports.)	
Brazil—Rio de Janeiro	180
Weekly city reports	39,
102, 132, 179, 223, 261, 300, 340, 385, 438, 481, 526, 564, 614, 663, 707, 743, 795, 857, 910, 951, 997, 1054, 1101, 1141, 1187.	
Weekly State reports	28,
32, 97, 128, 175, 217, 257, 296, 336, 379, 434, 477, 513, 558, 610, 659, 703, 739, 789, 853, 905, 947, 993, 1048, 1092, 1137, 1181.	
Poliomyelitis, experimental, cerebrospinal pathology of, in the eastern cotton rat, <i>Sigmodon hispidus hispidus</i> , and in the white mouse, <i>Mus musculus</i> —Lillie and Armstrong	718
Poliomyelitis experimentally induced in the eastern cotton rat, <i>Sigmodon hispidus hispidus</i> , the pathology of—Lillie and Armstrong	115
Poliomyelitis, immunity to the Lansing strain of, as revealed by the protection test in white mice—Haas and Armstrong	1061
Poliomyelitis, prevalence of, in the United States in 1939—Dauer	955
Poliomyelitis virus before and after passage in the cotton rat, a note on the pathology in monkeys of the Lansing strain of—Peers	726

	Page
Poliomyelitis virus, some new data on the distribution of.....	25
Population, the 1940 census of.....	374
Provisional mortality rates for the first 9 months of 1939.....	245
Psittacosis case in Idaho traced to shell parakeets shipped from southern California aviary.....	1043
Psittacosis in Arizona.....	99
Publications, Public Health Service, list of, issued during the period July-December 1939.....	289
Public health activities, our verbal—Mountin.....	323
Public health, court decisions on. (See Court decisions on public health.)	
Puerperal septicemia. (See United States—Monthly State reports.)	
Puerto Rico. (See United States—Monthly State reports.)	

Q

Quarantine surveillance, effective—Sippy.....	751
Quinby, G. E.: <i>Anopheles walkeri</i> (Theobald): A wild-caught specimen harboring malarial plasmodia.....	119

R

Rabies in animals. (See United States—Monthly State reports.)	
Rabies in man:	
(See also United States—Monthly State reports.)	
Weekly city reports.....	481, 951, 997
Rates, provisional mortality, for the first 9 months of 1939.....	245
Rats on ships, trapping.....	1057
Record keeping, health department, the place of an index in—Mountin and Flook.....	387
Relapsing fever: Data implicating <i>Ornithodoros hermsi</i> as a vector in northern Idaho—Philip and Davis.....	504
Relapsing fever spirochetes, feeding and molting habits of <i>Ornithodoros hermsi</i> , in relation to the acquisition and transmission of—Davis and Walker.....	492
Report on market-milk supplies of certain urban communities. Compliance with the Grade A pasteurized and Grade A raw milk requirements of the Public Health Service milk ordinance and code, January 1, 1938, to December 31, 1939.....	121
Rhode Island. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Riboflavin, bacterial assay of, in the urine and tissues of normal and depleted dogs and rats—Fraser, Topping, and Isbell.....	280
Rickettsioses, the preservation of the infectious agents of some of the—Topping.....	545
Ringworm disease. (See United States—Monthly State reports.)	
Rocky Mountain spotted fever:	
(See also United States—Monthly State reports.)	
Treatment of infected laboratory animals with immune rabbit serum—Topping.....	41
Rocky Mountain spotted fever virus isolated in the eastern United States, a highly virulent strain of—Topping and Dyer.....	728
Ruchhoft, C. C.: Studies of sewage purification—	
XI. The removal of glucose from substrates by activated sludge.....	393
XII. Metabolism of glucose by activated sludge.....	582

S

Sanitary units on ships. Organization and operation—Sherrard.....	470
Scarlet fever:	
(See also United States—Monthly State reports.)	
Weekly city reports.....	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661,	
705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	
Weekly State reports.....	28,
32, 97, 128, 175, 217, 257, 296, 336, 379, 434, 477, 513, 558, 610,	
659, 703, 739, 789, 853, 905, 947, 993, 1048, 1092, 1137, 1181.	
Schwartz, Louis:	
Clothing for protection against occupational skin irritants.....	1158
Occupational leukoderma.....	1111

Scotland: Vital statistics—	
Third quarter 1939.....	181
Fourth quarter 1939.....	797
Year 1939.....	797
Sebrell, W. H.: Ocular manifestations of ariboflavinosis.....	157
Sebrell, Dr. W. H., wins award for vitamin B studies.....	699
Septic sore throat. (See United States—Monthly State reports.)	
Sewage purification, studies of:	
XI. The removal of glucose from substrates by activated sludge—Ruchhoft, Kachmar, and Moore.....	393
XII. Metabolism of glucose by activated sludge—Ruchhoft, Kachmar, and Placak.....	582
XIII. The biology of <i>Sphaerotilus natans</i> Kutzing in relation to bulking of activated sludge—Lackey and Wattie.....	975
Sherrard, G. C.: Sanitary units on ships. Organization and operation....	470
Shimkin, Michael B.: Factors influencing carcinogenesis with methylcholanthrene. III. The effect of solvents.....	537
Ships, sanitary units on. Organization and operation—Sherrard.....	470
Simpson, T. W.: <i>Anopheles walkeri</i> (Theobald): A wild-caught specimen harboring malarial plasmodia.....	119
Siphonaptera: Notes on two California species—Jellison.....	489
Sippy, John J.: Effective quarantine surveillance.....	751
Skin hazards in American industry, Part III. A review.....	473
Smallpox:	
(See also United States—Monthly State reports.)	
Weekly city reports.....	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661, 705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	
Weekly State reports.....	29,
33, 97, 128, 175, 217, 257, 296, 336, 379, 434, 477, 513, 558, 610, 659, 703, 739, 789, 853, 905, 947, 993, 1048, 1092, 1137, 1181.	
Foreign reports....	184, 343, 569, 618, 666, 747, 798, 859, 953, 1001, 1056, 1188
Smith, Russell S.: Limitations of Euglenidae as polluted water indicators....	268
South Carolina. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
South Dakota. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
State and territorial health officers, the thirty-eighth annual conference of..	900
State legislation in 1939 affecting public health.....	695
Stewart, Harold L.: Origin of induced pulmonary tumors in strain A mice..	169
Stewart, Sarah E.: Studies on the toxins and antitoxins of <i>Clostridium perfringens</i>	753
Studies in childbirth mortality: I. Puerperal fatality and loss of offspring—Yerushalmy, Kramer, and Gardiner.....	1010
Studies of sewage purification:	
XI. The removal of glucose from substrates by activated sludge—Ruchhoft, Kachmar, and Moore.....	393
XII. Metabolism of glucose by activated sludge—Ruchhoft, Kachmar, and Placak.....	582
XIII. The biology of <i>Sphaerotilus natans</i> Kutzing in relation to bulking of activated sludge—Lackey and Wattie.....	975
Studies on the toxins and antitoxins of <i>Clostridium perfringens</i> —Stewart....	753
Studies on trichinosis:	
VIII. The antigenic phase of trichinosis—Bozicevich and Detre.....	683
XIV. A survey of municipal garbage disposal methods as related to the spread of trichinosis—Wright.....	1069
Study of the mode of action of methylcholanthrene on normal tissue cultures—Earle and Voegtlin.....	303
Sulfanilamide and sulfapyridine, the effect of, with and without serum in experimental meningococcus infection—Branham.....	12
Sulfapyridine and sulfanilamide, the effect of, with and without serum in experimental meningococcus infection—Branham.....	12
Sweden: Notifiable diseases—	
October 1939.....	263
November 1939.....	302
February 1940.....	744
March 1940.....	1103
April 1940.....	1188

	Page
Switzerland:	
Communicable diseases—	
October 1939.....	105
November 1939.....	529
December 1939.....	567
January 1940.....	665
February 1940.....	999
March 1940.....	1056
Vital statistics—Year 1939.....	999
Sydenstricker, V. P.: Ocular manifestations of ariboflavinosis.....	157
T	
Tennessee. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Tests for completeness of birth registration.....	330
Tests, use of, as a medium for health education—Derryberry and Weissman.....	485
Tetanus. (See United States—Monthly State reports.)	
Texas. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Ticks (<i>Ornithodoros</i> spp.) in Arizona bat "caves"—Philip.....	680
Topping, Norman H.: A highly virulent strain of Rocky Mountain spotted fever virus isolated in the eastern United States.....	728
Rocky Mountain spotted fever. Treatment of infected laboratory animals with immune rabbit serum.....	41
The bacterial assay of riboflavin in the urine and tissues of normal and depleted dogs and rats.....	280
The preservation of the infectious agents of some of the rickettsioses.....	545
Toxin of <i>Clostridium histolyticum</i> in animals, the experimental pathological changes produced by the—Pasternack and Bengtson.....	775
Toxins and antitoxins of <i>Clostridium perfringens</i> , studies on the—Stewart.....	753
Trachoma. (See United States—Monthly State reports.)	
Trapping rats on ships.....	1057
Trend of morbidity and mortality during 1939 and recent preceding years..	801
Trichinosis: (See also United States—Monthly State reports.)	
In San Francisco, sources of infection in cases of.....	942
Trichinosis, studies on: VIII. The antigenic phase of trichinosis—Bozicevich and Detre.....	683
XIV. A survey of municipal garbage disposal methods as related to the spread of trichinosis—Wright.....	1069
Tuberculosis: Weekly city reports.....	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661, 705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	
Tularaemia: (See also United States—Monthly State reports.)	
Infection found in streams.....	227
Tularaemia.....	667
Tumor production, skin, in C57 black mice, effect of petroleum ether extract of mouse carcasses on—Morton and Mider.....	670
Tumors in rats, attempts to produce, by feeding crude wheat germ oil made by prolonged ether extraction—Blumberg.....	531
Tumors, induced pulmonary, in strain A mice, origin of—Grady and Stewart.....	169
Typhoid fever: (See also United States—Monthly State reports.)	
Canada—Manitoba.....	664
Weekly city reports.....	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661, 705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	
Typhoid fever and paratyphoid fever: Weekly State reports.....	29,
33, 97, 128, 175, 217, 257, 296, 336, 379, 434, 477, 513, 558, 610, 659, 703, 739, 789, 853, 905, 947, 993, 1048, 1092, 1137, 1181.	
Typhus fever: (See also United States—Monthly State reports.)	
Foreign reports.....	40, 105, 134, 185, 224, 344, 386, 484, 570, 618, 748, 1002, 1056, 1190.

Typhus fever—Continued.

Weekly city reports.....	39,
102, 132, 179, 223, 261, 300, 340, 385, 438, 481, 526, 564, 614, 663,	
707, 743, 795, 910, 951, 997, 1054, 1101, 1141, 1187.	
Typhus, epidemic and endemic: Protective value for guinea pigs of vaccines prepared from infected tissues of the developing chick embryo—	
Cox and Bell.....	110

U

Undulant fever. (See United States—Monthly State reports.)	
Unidentified disease in Nevada believed to be transmitted by rodents.....	988
United States census of housing, the first.....	430
United States:	
Communicable diseases—	
Current prevalence of.....	107, 265, 441, 619, 799, 1003
Monthly State reports (see also quarterly reports).....	35, 516
Quarterly State reports.....	1095
Weekly State reports.....	27,
31, 95, 126, 173, 215, 255, 294, 334, 377, 432, 475, 511, 556, 608, 657,	
701, 737, 787, 851, 903, 945, 991, 1046, 1090, 1135, 1178.	
Deaths (all causes)—	
Weekly city reports.....	36,
99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661,	
705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185.	
Deaths—Large cities—	
Weekly reports (Weekly Health Index).....	16,
94, 125, 172, 214, 254, 293, 333, 376, 431, 474, 510, 555, 607, 656,	
700, 736, 787, 850, 902, 944, 990, 1045, 1089, 1134, 1178.	
Geographical distribution of diphtheria mortality in—Dauer.....	622
Infant death rates, by States, for 1938 and prior years.....	602
Infectious equine encephalomyelitis in 1939.....	601
Notifiable diseases in, 1938. Morbidity and mortality summaries of certain important communicable diseases.....	423
A correction.....	510
Plague in the—Hampton.....	1143
Prevalence of poliomyelitis in, 1939—Dauer.....	955
Veneral diseases—Monthly reports.....	219, 381, 560, 791, 1050, 1183
Vital statistics, summary of, 1938.....	933
Utah:	
(See also Name of disease—Weekly State reports; United States— Monthly State reports.)	
Plague (human).....	258

V

Vaccines prepared from infected tissues of the developing chick embryo, protective value for guinea pigs of; epidemic and endemic typhus—Cox and Bell.....	110
Veneral diseases—United States—Monthly reports.....	219
381, 560, 791, 1050, 1183.	
Vermont. (See Name of disease—Weekly State reports; United States— Monthly State reports.)	
V factor, the determination of, in the urine and tissues of normal dogs and of dogs with blacktongue by the use of <i>Hemophilus parainfluenzae</i> — Pittman and Fraser.....	915
Viability of <i>Aedes aegypti</i> eggs—Le Van.....	900
Vincent's infection. (See United States—Monthly State reports.)	
Virginia. (See Name of disease—Weekly State reports; United States— Monthly State reports.)	
Virgin Islands: Notifiable diseases—	
October 1939.....	181
November 1939.....	181
December 1939.....	181
January 1940.....	798
February 1940.....	798
March 1940.....	798

	Page
Vital statistics:	
Belgium—1938.....	527
Bermuda—1939.....	527
Egypt—	
First and second quarters, 1939.....	528
Third quarter 1939.....	912
Great Britain—England and Wales—Third quarter 1939.....	341
Irish Free State—Quarter ended September 30, 1939.....	181
Latvia—Year 1939—Comparative.....	912
Scotland—	
Third quarter 1939.....	181
Fourth quarter 1939.....	797
Year 1939.....	797
Switzerland—Year 1939.....	999
Vital statistics summary for the United States, 1938.....	933
Vitamin B ₁ deficiency and rat leprosy—Badger, Masunaga, and Wolf.....	1027
Voegtlin, Carl: A further study of the mode of action of methylcholanthrene on normal tissue cultures.....	303

W

Walker, Mary E.: <i>Ornithodoros hermsi</i> : Feeding and molting habits in relation to the acquisition and transmission of relapsing fever spirochetes.....	492
Warren, Leon H.: Clothing for protection against occupational skin irritants..... Occupational leukoderma.....	1158 1111
Washington: (See also Name of disease—Weekly State reports; United States—Monthly State reports.) Lincoln County—Plague-infected fleas..... Spokane County— Plague-infected fleas..... Plague-infected ground squirrels.....	1094 1094, 1138 1094
Water pollution research program of the Public Health Service, some developments in the—Hoskins.....	893
Wattie, Elsie: Studies of sewage purification—XIII. The biology of <i>Sphaerotilus natans</i> Kutzing in relation to bulking of activated sludge.....	975
Wealth as expressed by per capita income, existence and use of hospital facilities among the several States in relation to—Pennell, Mountin, and Pearson.....	822
Weissman, Arthur: Using tests as a medium for health education.....	485
West Virginia. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Wheat germ oil, crude, made by prolonged ether extraction, attempts to produce tumors in rats by feeding—Blumberg.....	531
Whooping cough: (See also United States—Monthly State reports.) Weekly city reports..... 99, 130, 177, 220, 259, 298, 338, 382, 436, 479, 524, 562, 612, 661, 705, 741, 793, 855, 908, 949, 995, 1052, 1099, 1139, 1185. Weekly State reports..... 33, 98, 129, 176, 218, 258, 297, 337, 380, 435, 478, 515, 559, 611, 660, 704, 740, 790, 854, 907, 948, 994, 1049, 1093, 1138, 1182.	36, 612, 29, 829
Williams, C. L.: Disinsectization of aircraft.....	1005
Wisconsin. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	
Wolf, D.: Leprosy: Vitamin B ₁ deficiency and rat leprosy.....	1027
Wright, Willard H.: Studies on trichinosis—XIV. A survey of municipal garbage disposal methods as related to the spread of trichinosis.....	1069
Wyoming. (See Name of disease—Weekly State reports; United States—Monthly State reports.)	

Y

Page

Yellow fever—Bauer.....	362
Yellow fever: Foreign reports.....	134, 186,
225, 263, 302, 345, 386, 439, 484, 529, 571, 749, 798, 1002, 1191.	
Yerushalmy, J.: Studies in childbirth mortality—I. Puerperal fatality and loss of offspring.....	1010
Yugoslavia: Communicable diseases—4 weeks ended—	
December 3, 1939.....	182
December 31, 1939.....	302
January 28, 1940.....	483
February 25, 1940.....	666
March 24, 1940.....	859
April 21, 1940.....	1103



Public Health Reports



VOLUME 55 JANUARY 5, 1940 NUMBER 1

IN THIS ISSUE

Industrial Morbidity, Third Quarter and First 9 Months of 1939

A Survey of Mortality Rates and Economic Status in Rural Areas

Drug and Serum Therapy in Experimental Meningococcus Infection

Some New Data Regarding the Distribution of Poliomyelitis Virus

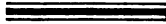


FEDERAL SECURITY AGENCY
UNITED STATES PUBLIC HEALTH SERVICE

THOMAS PARRAN, *Surgeon General*

DIVISION OF SANITARY REPORTS AND STATISTICS

CHARLES V. AKIN, *Assistant Surgeon General, Chief of Division*



The **PUBLIC HEALTH REPORTS**, first published in 1878 under authority of an act of Congress of April 29 of that year, is issued weekly by the United States Public Health Service through the Division of Sanitary Reports and Statistics, pursuant to the following authority of law: United States Code, title 42, sections 7, 30, 93; title 44, section 220.

It contains (1) current information regarding the prevalence and geographic distribution of communicable diseases in the United States, insofar as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other important communicable diseases throughout the world; (2) articles relating to the cause, prevention, and control of disease; (3) other pertinent information regarding sanitation and the conservation of the public health.

The **PUBLIC HEALTH REPORTS** is published primarily for distribution, in accordance with the law, to health officers, members of boards or departments of health, and other persons directly or indirectly engaged in public health work. Articles of special interest are issued as reprints or as supplements, in which forms they are made available for more economical and general distribution.

Requests for and communications regarding the **PUBLIC HEALTH REPORTS**, reprints, or supplements should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C. Subscribers should remit direct to the Superintendent of Documents, Washington, D. C.

Librarians and others should preserve their copies for binding, as the Public Health Service is unable to supply the general demand for bound copies. Indexes will be supplied upon request.

UNITED STATES GOVERNMENT PRINTING OFFICE : 1940

For sale by the Superintendent of Documents, Washington, D. C.

Price 5 cents. Subscription price \$2.50 a Year